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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/786,289	03/01/2001	Heribert Wutte	PH0-99.528	8148
24737	24737 7590 02/03/2004		EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510		LAO, TIM P		
			ART UNIT	PAPER NUMBER
	,		2655	6
			DATE MAILED: 02/03/2004	,

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)	
,		09/786,28	39	WUTTE, HERIBERT	
	Office Action Summary	Examiner		Art Unit	
		Tim Lao		2655	- <u>-</u>
Period fo	The MAILING DATE of this communication or Reply	n appears on the	e cover sheet with the c	orrespondence address	
THE - Extermination after - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION assions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by steply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no even. In. In reply within the state eriod will apply and wistatute, cause the app	ent, however, may a reply be timutory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication (35 U.S.C. § 133).	on.
1)	Responsive to communication(s) filed on g	01 March 2001.			
2a) <u></u> □	This action is FINAL . 2b)	This action is no	on-final.		
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				S
Dispositi	on of Claims				
4)⊠	Claim(s) 1-14 is/are pending in the applica	ation.			
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5)□	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1-3,7-10 and 14</u> is/are rejected.				
7)⊠	Claim(s) <u>1-7 and 11-13</u> is/are objected to.				
8)□	Claim(s) are subject to restriction a	nd/or election re	equirement.		
Applicati	on Papers				
9)🛛	The specification is objected to by the Exam	miner.			
10)⊠	The drawing(s) filed on <u>01 March 2001</u> is/a	are: a)∏ accep	oted or b)⊠ objected to	by the Examiner.	
	Applicant may not request that any objection to	the drawing(s) t	e held in abeyance. See	e 37 CFR 1.85(a).	
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).				(d).
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
•	ınder 35 U.S.C. §§ 119 and 120				
* 5 13)	Acknowledgment is made of a claim for fo All b) Some * c) None of: 1. Certified copies of the priority document of the priority document of the priority document of the certified copies of the application from the International Buster of the attached detailed Office action for a cacknowledgment is made of a claim for domince a specific reference was included in the 7 CFR 1.78. The translation of the foreign language acknowledgment is made of a claim for dome of the foreign language acknowledgment is made of a claim for dome of the first sentence of the company of the first sentence of the foreign language of the claim for dome of the first sentence of the company of the first sentence of the first sentence of the company of the first sentence of the first sentence of the company of the first sentence of the first sent	ments have bee ments have bee priority docume ureau (PCT Rul a list of the certi nestic priority und re first sentence e provisional ap nestic priority und	on received. In received in Application received in Application to the interest of the specification of the specification of the specification and the specification of the spec	on No ed in this National Stage ed. e) (to a provisional application Data Shapelication Data Shapelication 121 since a specification by the state of t	ic
	e of References Cited (PTO-892)		4) Interview Summarv	(PTO-413) Paper No(s)	
2) Notic	the of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449) Paper No.			atent Application (PTO-152)	

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DETAILED ACTION

Drawings

1. The drawings are objected to as failing to comply with 37 CRF § 1.84(o) because there are no descriptive legends for any of the schematic blocks of Fig.1-3, with the exception of the blocks "A/D" and "D/A" of Fig.2 and block "D/A" of Fig.3. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

2. The disclosure is objected to because of the following informalities: There are no section headings in the specification (see 37 CFR § 1.77(c)).

Appropriate correction is required.

Claim Objections

3. Claim 1-7 are objected to because of the following informalities:

Claim 1 recites "speech recognition means (42) which are arranged for recognizing text information (RTI) ...". The interpretation of this element of claim 1 in the context of "...recognizing text information..." would be that text information, not voice information (AI), is the input information being evaluated by the speech recognition means (42). However, as best understood from the drawings (Fig.1) and the specification (p.8, L.16-26), the voice information (AI) is the input information being evaluated by the speech recognition means (42) to provide the recognized text

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information (RTI) as the output information. The examiner will assume the latter interpretation in determining the validity of claims 1-7. It is suggested that "recognizing text information" be changed to -- recognized text information --.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-3, 7-10, and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Mitchell et al. (U.S. Patent 5,799,273).

Claim(s)

Mitchell et al. disclose:

1

A speech recognition device (Fig.2) comprising:

receiving means for receiving voice information (audio signal) uttered by a speaker (col.5, L.14-19; col.6, L.9-11) and including speech coefficient storage means (disk storage, Fig.2: 15) for storing a speech coefficient indicator (e.g., scores of alternative words, col.6, L.1-8, L.48-65) and

- {1. Fig.2 illustrates the internal architecture of the computer of Fig.1 (col.5, L.37-38). The audio input device (Fig.2: 16) comprises a microphone (Fig.1: 5) or a pre-recorded signal source (col.6, L.9-11).
- 2. The score, e.g., the likelihood or probability that the alternative word is the correct word, is a speech coefficient indicator. (col.6, L.59-65)}

speech recognition means (Fig.2: 11, 12) which are arranged for recognizing text information (text component) which corresponds to the received voice information (input audio signal) by means of an evaluation of the voice information and of the speech coefficient

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indicator characterized in that (col.5, L.46-57; col.6, L.48-67; col.7, L.1-30)

- {1. The speech recognition output data (i.e., the output of speech recognition engine application, Fig.2: 11) comprises a text component (col.5, L.59-60) and an audio component (col.6, L.55-58). The text component is stored as text files in the user's directory (Fig.2: 15; col.6, L.1-8) and the audio component is stored as audio data files in the temporary directory (Fig.2: 15; col.6, L.30-34).
- 2. The user model (Fig.2: 21) and language model (Fig.2: 22) are probabilistic in nature and thus comprise probability models and model parameters. During the speech recognition process, the speech recognition engine application (Fig.2: 11) utilizes the language model and the user model along with their associated probability model parameters, and dictionary (Fig.2: 23) to process or evaluate the input audio signal or voice information (col.5, L.52-56). The result of the evaluation is the speech recognition output data which comprise text and audio information, and scores of alternative words in the recognized output (col.5, L.52-62; col.6, L.48-67; col.7, L.1-30).
- 3. The probability model parameters of the language model and the scores of the alternative words of the speech recognition output data are considered to be speech coefficient indicators.}

transfer means (Fig.11) are provided which enable to import (e.g., download from a floppy disc) a speech coefficient indicator (e.g., new words and updated model parameters) and storing the imported speech coefficient indicator in the speech coefficient storage means (disk storage, Fig.2: 15). (see col.12, L.15-67; col.15, L.4-57; col.16, L.5-8).

- {1. Fig. 11 illustrates transfer means of importing and exporting data files between author workstation and editor workstation. The author workstation comprises the architecture of Fig.2 (e.g., with speech recognition engine, user model, and language model; col.12, L.15-28). The editor workstation comprises the architecture of Fig.12 (e.g., without speech recognition engine, user model, and language model; col.12, L.43-67). The purpose of the network connection of Fig.11 is to allow the author workstation to delegate the tasks of correcting misrecognized words to the editor workstation (col.15, 1-57; col.16, L.5-8).
- 2. After the corrections by the editor workstation, correction files (e.g., new words and updated model parameters) can be stored on a disc and transferred (imported) back to the author workstation wherein the disc can be re-read by the author workstation for updating of the user model (Fig.2: 21) by the speech recognition engine application (Fig.2: 11). (see col.12, L.36-42).}

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	means can be connected to a computer network. (Fig.11; col.12, L.16-67)
Claim(s)	Mitchell et al. disclose:
	A speech recognition method for recognizing text information which corresponds to voice information, while the method contains the following steps,
	receiving voice information (audio signal); (col.5, L.14-19; col.6, L.9-11)
	evaluating the received voice information (input audio signal) and stored speech coefficient indicator (e.g., the probability model parameters of the user model 21 and language model 22, the probability of alternative words, and a list and number corrected words from previous error correction and updating model steps) and delivering recognized text information (i.e., the recognized output data which comprise text and audio information), characterized in that (col.6, L.48-67; col.7; col.8, L.1-23; col.9, L.26-67) {1. The list of alternative words also contains corrected words and new words as a result of the error correction and updating the user model steps.}
	a speech coefficient indicator (e.g. correction files which contain the corrected words and probability the corrected words) is imported (i.e., from a floppy disc), and stored (on disk storage 15). (col.12, L.29-42)
Claim(s)	Mitchell et al. disclose:
9	A speech recognition method as claimed in claim 8, characterized in that the stored speech coefficient indicator is trained (e.g., error correction of misrecognized words and updating user model; col.7, L.31-67; col.8, L.1-24) by an evaluation of at least one piece of text information (e.g., text component of the speech recognition output data; col.6, L.66-67; col.7, L.1-30) and in that the stored speech coefficient indicator is exported (e.g., copy speech recognition files to a floppy disc; col.12, L.29-36). {1. The steps of training means comprise: receiving the speech recognition output data 24 and it's probability information from the speech recognition engine application 11 (col.6, L.48-65); evaluating the recognized output data by the speech recognition interface application 12 (col.6, L.66-67; col.7, L.1-30); and correcting the mis-recognized portion and updating the user model with the corrected words (Fig.5).

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	 The score or probability of alternative words associated with the speech recognition output data 24 and the list and number of corrected words for updating the user model 21 are considered to be speech coefficient indicators. The speech recognition run time created files contain score or probability information for the error correction process.}
Claim(s)	Mitchell et al. disclose:
10	
	A speech recognition method as claimed in claim 9, characterized in that the training
	of the stored speech coefficient indicator includes both a correction (e.g., error correction) of
	the recognized text information (which comprise misrecognized as well as recognized text
	information) and delivering corrected text information and adjusting the stored speech
	coefficient indicator (e.g., correcting recognition error in the acoustic model and updating the
	contextual model with the corrected words) by evaluating at least the corrected text
	information. (col.8, L.9-22)
Claim(s)	Mitchell et al. disclose:
14	
	A speech recognition method as claimed in claim 8, characterized in that a speech
	coefficient indicator can be imported from a computer network and stored. (Fig.11; col.12,
	L.16-67)

Allowable Subject Matter

6. Claims 4-6 and 11-13 are objected to as being dependent upon a rejected base claim, but would		
be allowable if rewritten in independent form including all of the limitations of the base claim and any		
intervening	g claims.	
·		
Claim/a)	The pains and fall to a harm	
Claim(s)	The prior arts fail to show:	
4, 5		
	the training means are arranged for generating a training indicator which denotes the	
	extent of adjustment of the speech coefficient indicator stored in the speech coefficient	
	storage means.	

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Claim(s)	The prior arts fail to show:
6	
	the imported speech coefficient indicator was trained to a larger extent than the
	stored speech coefficient indicator.
Claim(s)	The prior arts fail to show:
11, 12	
	a training indicator is generated which denotes the extent of the adjustment of the
	stored speech coefficient indicator.
Claim(s)	The prior arts fail to show:
13	
	the training indicators shows that the imported speech coefficient indicator was
	trained to a larger extent than the stored speech coefficient indicator.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- U.S. Patent Documents:

[A] 6,064,959	05/2000	Young et al.
[B] 5,390278	02/1995	Gupta et al.
[C] 5,884,258	03/1999	Rozak et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim Lao whose telephone number is 703-305-8955.

The examiner can normally be reached on M-F, 8:30am-5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To can be reached on 703-305-4827. The fax phone number for the organization where this application or proceeding is assigned is 703-305-9508.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9000.

Tim Lao Examiner Art Unit 2655

TL 01/23/04

DORIS H. TO

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600